

1/26

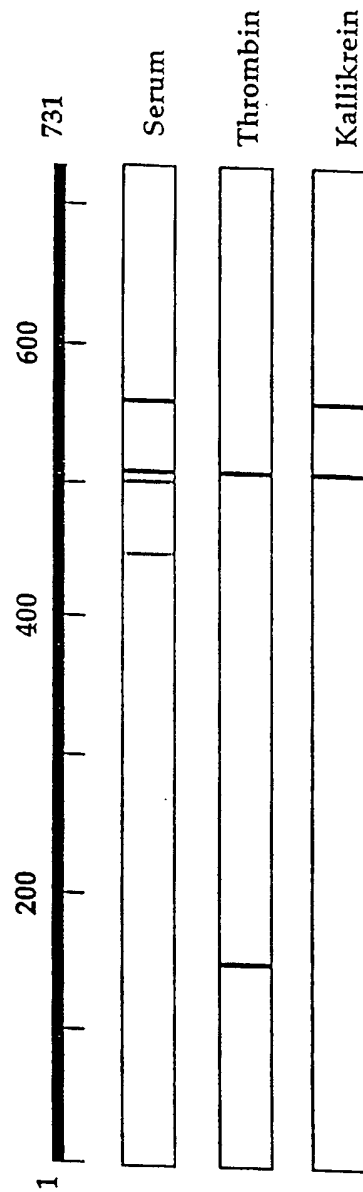


Figure 1

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S M G G V P G A I P G G V P G G V F Y P
↑
Start pf mature processed protein

61 CAGGCGCGGGTCTGGGTGCACTGGGCGGTGGTGCCTGGGCCCGGGTGGTAAACCGCTGA 120
GTCCGCGCCCAGACCCACGTGACCCGCCACCACGCGACCCGGGCCACCATTGCGGACT
G A G L G A L G G G A L G P G G K P L K

121 AACCGGTTCCAGGCGGTCTGGCAGGTGCTGGTCTGGGTGCAGGTCTGGGCGCGTTCCCGG 180
TTGGCCAAGGTCCGCCAGACCGTCCACGACCAGACCCACGTCCAGACCCGCGCAAGGGCC
P V P G G L A G A G L G A G L G A F P A

181 CGGTTACCTTCCCGGGTGCTCTGGTTCCGGGTGGCGTTGCAGACGCAGCTGCTGCGTACA 240
GCCAATGGAAGGGCCCACGAGACCAAGGCCACCGCAACGTCTGCGTCGACGACGCATGT
V T F P G A L V P G G V A D A A A A Y K

241 AAGCGGCAAAGGCAGGTGCGGGTCTGGGCGGGGTACCAGGTGTTGGCGGTCTGGGTGTAT 300
TTCGCCGTTTCCGTCCACGCCCAGACCCGCCCATGGTCCACAACCGCCAGACCCACATA
A A K A G A G L G G V P G V G G L G V S

301 CTGCTGGCGCAGTTGTTCCGCAGCCGGGTGCAGGTGTAAAACCGGGCAAAGTTCCAGGTG 360
GACGACCGCGTCAACAAGGCGTCGGGCCACGTCCACATTTTGGCCCGTTTCAAGGTCCAC
A G A V V P Q P G A G V K P G K V P G V

361 TTGGTCTGCCGGGCGTATACCCGGGTGGTGTCTGCCGGGCGCGCGTTTCCAGGTGTTG 420
AACCAGACGGCCCGCATATGGGCCCACCACAAGACGGCCCGCGCGCAAAGGTCCACAAC
G L P G V Y P G G V L P G A R F P G V G

Figure 2(a)

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421 GTGTACTGCCGGGCGTTCCGACCGGTGCAGGTGTTAAACCGAAGGCACCAGGTGTAGGCG 480
CACATGACGGCCCGCAAGGCTGGCCACGTCCACAATTTGGCTTCCGTGGTCCACATCCGC
V L P G V P T G A G V K P K A P G V G G

481 GCGCGTTGCGGGGTATCCCGGGTGTGGCCCGTTCGGTGGTCCGCAGCCAGGCGTTCCGC 540
CGCGCAAGCGCCCATAGGGCCCAACCGGGCAAGCCACCAGGCGTCGGTCCGCAAGGCG
A F A G I P G V G P F G G P Q P G V P L

541 TGGGTTACCCGATCAAAGCGCCGAAGCTTCCAGGTGGCTACGGTCTGCCGTACACCACCG 600
ACCCAATGGGCTAGTTTCGCGGCTTCGAAGGTCCACCGATGCCAGACGGCATGTGGTGGC
G Y P I K A P K L P G G Y G L P Y T T G

601 GTAAACTGCCGTACGGCTACGGTCCGGGTGGCGTAGCAGGTGCTGCGGGTAAAGCAGGCT 660
CATTTGACGGCATGCCGATGCCAGGCCACCGCATCGTCCACGACGCCCATTTTCGTCCGA
K L P Y G Y G P G G V A G A A G K A G Y

661 ACCCAACCGGTA CTGGTGTGGTCCGCAGGCTGCTGCGGCAGCTGCGGCCGAAGGCAGCAG 720
TGGGTTGGCCATGACCACAACCGGCGTCCGACGACGCCGTGACGCCGCTTCCGTGCTC
P T G T G V G P Q A A A A A A A K A A A

721 CAAAATTCGGCGCGGGTGCAGCGGGTGTCTGCCGGGCGTAGGTGGTGTGGCGTTCCGG 780
GTTTAAAGCCGCGCCACGTGCGCCACAAGACGGCCCCCATCCACCACGACCGCAAGGCC
K F G A G A A G V L P G V G G A G V P G

781 GTGTTCCAGGTGCGATCCCGGGCATCGGTGGTATCGCAGGCGTAGGTACTCCGGCGGGCCG 840
CACAAGGTCCACGCTAGGGCCCGTAGCCACCATAGCGTCCGCATCCATGAGGCCGCCGGC
V P G A I P G I G G I A G V G T P A A A

841 CTGCGGCTGCGGCAGCTGCGGCGAAAGCAGCTAAATACGGTGCGGCAGCAGGCCTGGTTC 900
GACGCCGACGCCGTGACGCCGCTTTCGTGATTTATGCCACGCCGTGTCGGACCAAG
A A A A A A A K A A K Y G A A A G L V P

Figure 2(b)

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901 CGGGTGGTCCAGGCTTCGGTCCGGGTGTTGTAGGCGTTCCGGGTGCTGGTGTTCGGGGCG 960
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G G P G F G P G V V G V P G A G V P G V

961 TAGGTGTTCCAGGTGCGGGCATCCCGGTTGTACCGGGTGCAGGTATCCCGGGCGCTGCGG 1020
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G V P G A G I P V V P G A G I P G A A V

1021 TTCCAGGTGTTGTATCCCCGGAAGCGGCAGCTAAGGCTGCTGCGAAAGCTGCGAAATACG 1080
AAGGTCCACAACATAGGGGCCTTCGCCGTCGATTCCGACGACGCTTTCGACGCTTTATGC
P G V V S P E A A A K A A A K A A K Y G

1081 GAGCTCGTCCGGGCGTTGGTGTGGTGGCATCCCGACCTACGGTGTAGGTGCAGGCGGTT 1140
CTCGAGCAGGCCCGCAACCACAACCACCGTAGGGCTGGATGCCACATCCACGTCCGCCAA
A R P G V G V G G I P T Y G V G A G G F

1141 TCCCAGGTTTTCGGCGTTGGTGTGGTGGCATCCCGGGTGTAGCTGGTGTTCGCTCTGTTG 1200
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P G F G V G V G G I P G V A G V P S V G

1201 GTGGCGTACCGGGTGTGGTGGCGTTCCAGGTGTAGGTATCTCCCCGGAAGCGCAGGCAG 1260
CACCGCATGGCCCCACAACCACCGCAAGGTCCACATCCATAGAGGGGCCTTCGCGTCCGTC
G V P G V G G V P G V G I S P E A Q A A

1261 CTGCGGCAGCTAAAGCAGCGAAGTACGGCGTTGGTACTCCGGCGGCAGCAGCTGCTAAAG 1320
GACGCCGTCGATTTCGTCGCTTCATGCCGCAACCATGAGGCCGCCGTCGTCGACGATTTC
A A A K A A K Y G V G T P A A A A A K A

1321 CAGCGGCTAAAGCAGCGCAGTTCGGACTAGTTCCGGGCGTAGGTGTTGCGCCAGGTGTTG 1380
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A A K A A Q F G L V P G V G V A P G V G

Figure 2(c)

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1381 GCGTAGCACCGGGTGTGGTGTGCTCCGGGCGTAGGTCTGGCACCGGGTGTGGCGTTG 1440
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P G V G V A P G V G V A P G I G P G G V

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A A A A K S A A K V A A K A Q L R A A A

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G L G A G I P G L G V G V G V P G L G V

1621 TAGGTGCAGGGGTACCGGGCCTGGGTGTGGTGCAGGCGTTCCGGGTTTCGGTGTCTGGCG 1680
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G A G V P G L G V G A G V P G F G A G A

1681 CGGACGAAGGTGTACGTGTTCCCTGTCTCCAGAAGTGGGTGAAGGTGACCCGTCTCTTT 1740
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D E G V R R S L S P E L R E G D P S S S

1741 CCCAGCACCTGCCGTCTACCCCGTCTCTCCACGTGTTCGGGCGCGCTGGCTGCTGCGA 1800
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Q H L P S T P S S P R V P G A L A A A K

1801 AAGCGGCGAAATACGGTGCAGCGGTTCCGGGTGTACTGGGCGGTCTGGGTGCTCTGGGCG 1860
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A A K Y G A A V P G V L G G L G A L G G

Figure 2(d)

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1861	GTGTTGGTATCCCGGGCGGTGTTGTAGGTGCAGGCCAGCTGCAGCTGCTGCTGCGGCAA CACAACCATAGGGCCCGCCACAACATCCACGTCCGGGTTCGACGTTCGACGACGACGCCGTT V G I P G G V V G A G P A A A A A A A K	1920
1921	AGGCAGCGGCGAAAGCAGCTCAGTTCGGTCTGGTTGGTGCAGCAGGTCTGGGCGGTCTGG TCCGTGCGCGCTTTCGTTCGAGTCAAGCCAGACCAACCACGTTCGACACCCGCCAGACC A A A K A A Q F G L V G A A G L G G L G	1980
1981	GTGTTGGCGGTCTGGGTGTACCGGGCGTTGGTGGTCTGGGTGGCATCCCGCCGGCGGCGG CACAACCGCCAGACCCACATGGCCCGCAACCACCAGACCCACCGTAGGGCGGCGCGGCC V G G L G V P G V G G L G G I P P A A A	2040
2041	CAGCTAAAGCGGCTAAATACGGTGCAGCAGGTCTGGGTGCGTTCCTGGGTGGTGCTGGTC GTCGATTTCGCCGATTTATGCCACGTTCGTCAGACCCACCGCAAGACCCACCACGACCAG A K A A K Y G A A G L G G V L G G A G Q	2100
2101	AGTTCCCACTGGGCGGTGTAGCGGCACGTCCGGGTTTCGGTCTGTCCCCGATCTTCCCAG TCAAGGGTGACCCGCCACATCGCCGTGCAGGCCCAAAGCCAGACAGGGGCTAGAAGGGTC F P L G G V A A R P G F G L S P I F P G	2160
2161	GCGGTGCATGCCTGGGTAAAGCTTGCGGCCGTAAACGTAAATAATGATAG CGCCACGTACGGACCCATTTGGAACGCCGGCATTTCGATTTACTATCCTAG G A C L G K A C G R K R K * * *	2210

Figure 2(e)

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1  GGVPGAIPGGVPGGVFFYPGAGLGALGGGALGPGGKPLKFPVPGGLAGAGLG 50
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1  GGVPGAIPGGVPGGVFFYPGAGLGALGGGALGPGGKPLKFPVPGGLAGAGLG 50
51  AGLGAFPAVTFPGALVPGGVADAAAAYKAAGAGLGGVPGVGLGVSA 100
  ||||||||||||||||||||||||||||||||||||||||||||||||||||
51  AGLGAFPAVTFPGALVPGGVADAAAAYKAAGAGLGGVPGVGLGVSA 100
101 AVVPQPGAGVKPKGVPGVGLPGVYPGGVLPGARFPGVGLPGVPTGAGVK 150
  ||||||||||||||||||||||||||||||||||||||||||||||||||||
101 AVVPQPGAGVKPKGVPGVGLPGVYPGGVLPGARFPGVGLPGVPTGAGVK 150
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  ||||||||||||||||||||||||||||||||||||||||||||||||||||
151 PKAPGVGGAFAGIPGVGPFGGPQPGVPLGYPIKAPKLPGGYGLPYTTGKL 200
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  ||||||||||||||||||||||||||||||||||||||||||||||||||||
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  ||||||||||||||||||||||||||||||||||||||||||||||||||||
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351 AAKAAKYGARPGVGVGGIPTYGVGAGGFPFGVGVGGIPGVAGVPSVGGV 400
  ||||||||||||||||||||||||||||||||||||||||||||||||||||
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401 PGVGGVPGVGISPEAQAAAAKAAKYGVGTPAAAAKAAKAAQFGLVPG 450
  ||||||||||||||||||||||||||||||||||||||||||||||||||||
401 PGVGGVPGVGISPEAQAAAAKAAKYGVGTPAAAAKAAKAAQFGLVPG 450
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  ||||||||||||||||||||||||||||||||||||||||||||||||||||
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551 VPGFGAGADEGVRRSLSPELREGDPSSSQHLPSTPSSPRVPGALAAAKAA 600
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551 VPGFGA.....VPGALAAAKAA 567
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651 AAGLGLGVGGLGVPGVGGGLGIPPAKAAKAAKYGAAGLGGVLGGAGQFP 700
  ||||||||||||||||||||||||||||||||||||||||||||||||||||
618 AAGLGLGVGGLGVPGVGGGLGIPPAKAAKAAKYGAAGLGGVLGGAGQFP 667
701 LGGVAARPGFGLSPIFFPGGACLGKACGRKK 731
  |||||||
668 LGGVAARPGFGLSPIFFPGGACLGKACGRKK 698

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Figure 3

SUBSTITUTE SHEET (Rule 26) (RO/AU)

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1 ATGGGTGGCGTTCGGGGTGTCTGTTCCGGGTGGCGTTCGGGGTGGTGTATT 50
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1 MetGlyGlyValProGlyAlaValProGlyGlyValProGlyGlyValPh 17
51 CTACCCAGGCGCGGGTTCGGGTGCTGTTCGGGGTGGCGTTCGAGACGCGAG 100
  |||
18 eTyrProGlyAlaGlyPheGlyAlaValProGlyGlyValAlaAspAlaA 34
101 CTGCTGGGTACAAAGCGGCAAGGCAGGTGCGGGTCTGGGGCGGGGTACCA 150
  |||
35 laAlaAlaTyrLysAlaAlaLysAlaGlyAlaGlyLeuGlyGlyValPro 50
151 GGTGTGGCGGTCTGGGGTGTATCTGCTGGGCGCAGTTGTTCCGCGAGCGGG 200
  |||
51 GlyValGlyGlyLeuGlyValSerAlaGlyAlaValValProGlnProG 67
201 TGCAGGTGTAAACCGGGCAAGTTCAGGTGTTGGTCTGCGGGGGGTAT 250
  |||
68 yAlaGlyValLysProGlyLysValProGlyValGlyLeuProGlyValT 84
251 ACCCGGGTTTCGGTGCTGTTCGGGGCGCGGGTTCGCCAGGTGTGGTGT 300
  |||
85 yrProGlyPheGlyAlaValProGlyAlaArgPheProGlyValGlyVal 100
301 CTGCGGGGCGTTCCGACCGGTGCAGGTGTAAACCGAAGGCACCGAGTGT 350
  |||
101 LeuProGlyValProThrGlyAlaGlyValLysProLysAlaProGlyVa 117
351 AGGCGGGCGGTTTCGGGGTATCCCGGGTGTGGCCCGTTCCGGTGGTCCG 400
  |||
118 lGlyGlyAlaPheAlaGlyIleProGlyValGlyProPheGlyGlyProG 134
401 AGCCAGGCGTTCCGCTGGGTACCCGATCAAGCGCCGAAGCTTCAGGT 450
  |||
135 lnProGlyValProLeuGlyTyrProIleLysAlaProLysLeuProGly 150
451 GGCTACGGTCTGCCGTACACACCGGTAAACTGCCGTACGGCTACGGTCC 500
  |||
151 GlyTyrGlyLeuProTyrThrThrGlyLysLeuProTyrGlyTyrGlyPr 167
501 GGGTGGCGTAGCAGGTGCTGCGGGTAAAGCAGGCTACCCAAACCGGTACT 550
  |||
168 oGlyGlyValAlaGlyAlaAlaGlyLysAlaGlyTyrProThrGlyThrg 184
551 GTGTTGGTCCGCAGGCTGCTGCGGCAGCTGCGGCGAAGGCAGCAGCARRA 600
  |||
185 lyValGlyProGlnAlaAlaAlaAlaAlaAlaAlaAlaAlaAlaLys 200
601 TTCGGCGCGGGTGCAGCGGGTTCGGGTGCTGTTCGGGGCGTAGGTGGTGC 650
  |||
201 PheGlyAlaGlyAlaAlaGlyPheGlyAlaValProGlyValGlyGlyAl 217
651 TGGCGTTCGGGTGTTCCAGGTGCGATCCCGGGCATCGGTGGTATCGCAG 700
  |||
218 aGlyValProGlyValProGlyAlaIleProGlyIleGlyGlyIleAlaG 234
701 GCGTAGGTACTCCGGCGGCGCGCTGCGGGCTGCGGCAGCTGCGGCGAAGCA 750
  |||
235 lyValGlyThrProAlaAlaAlaAlaAlaAlaAlaAlaAlaAlaLysAla 250
751 GCTAAATACGGTGCAGCAGGCGCTGGTTCGGGGTGGTCCAGGCTTCGG 800
  |||
251 AlaLysTyrGlyAlaAlaAlaGlyLeuValProGlyGlyProGlyPheGl 267
801 TCCGGGTGTGTAGGCGTTCCGGGTTCGGGTGCTGTTCGGGGCGTAGGTG 850
  |||

```

Figure 4(a)

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268 yProGlyValValGlyValProGlyPheGlyAlaValProGlyValGlyV 284
 851 TTCCAGGTGCGGGCATCCCGTTGTACCGGGTGCAGGTATCCCGGGCGCT 900
 285 alProGlyAlaGlyTleProValValProGlyAlaGlyTleProGlyAla 300
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 301 AlaGlyPheGlyAlaValSerProGluAlaAlaAlaLysAlaAlaAlaLys 317
 951 AGCTGCGAAATACGGAGCTCGTCCGGGGCGTTGGTGTGGTGGCATCCCGA 1000
 318 sAlaAlaLysTyrGlyAlaArgProGlyValGlyValGlyGlyTleProT 334
 1001 CCTACGGTGTAGGTGCAGGCGGTTTCCAGGTTTCGGCGTGTGGTGTGGT 1050
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 1051 GGCATCCCGGGTGTAGCTGGTGTTCGGTCTGTGGTGGCGTACCGGGTGT 1100
 351 GlyTleProGlyValAlaGlyValProSerValGlyGlyValProGlyVa 367
 1101 TGGTGGCGTTCCAGGTGTAGGTATCTCCCGGAAGCGCAGGCAGCTGCGG 1150
 368 lGlyGlyValProGlyValGlyTleSerProGluAlaGlnAlaAlaAla 384
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 385 laAlaLysAlaAlaLysTyrGlyValGlyThrProAlaAlaAlaAlaAla 400
 1201 AAAGCAGCGGCTAAGCAGCGCAGTTCCGACTAGTTCCGGGCGTAGGTGT 1250
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 1251 TCGCGCCAGGTGTGGCGTAGCACCGGGTGTGGTGTGGTGTGGTGTGGTGT 1300
 418 lAlaProGlyValGlyValAlaProGlyValGlyValAlaProGlyValG 434
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 435 lyLeuAlaProGlyValGlyValAlaProGlyValGlyValAlaProGly 450
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 551 ileProGlyGlyValValGlyAlaGlyProAlaAlaAlaAlaAlaAla 567

Figure 4(b)

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|||||
568 aIysAlaAlaAlaAlaAlaAlaGlnPheGlyLeuValGlyAlaAlaGlyL 584
1751 TGGGCGGTCTGGGTGTTGGCGGTCTGGGTGTACCGGGCGTTGGTGGTCTG 1800
|||||
585 euGlyGlyLeuGlyValGlyGlyLeuGlyValProGlyValGlyGlyLeu 600
1801 GGTGGCATCCCGCGGCGGCGGCGGCAGCTAAAGCGGCTAAATACGGTGCAGC 1850
|||||
601 GlyGlyTleProProAlaAlaAlaAlaAlaAlaAlaAlaAlaAlaAlaAla 617
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|||||
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Figure 4(c)

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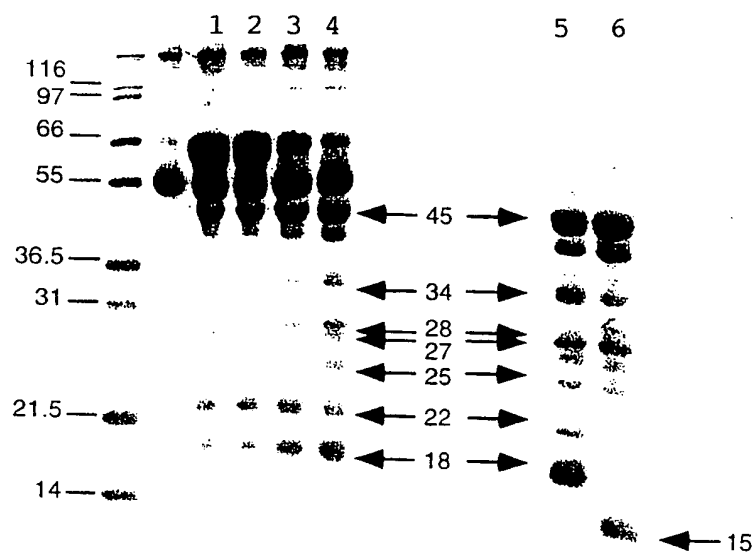


Figure 5

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









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-	+	-	+	-	+	-	+	-	+
									

Figure 6

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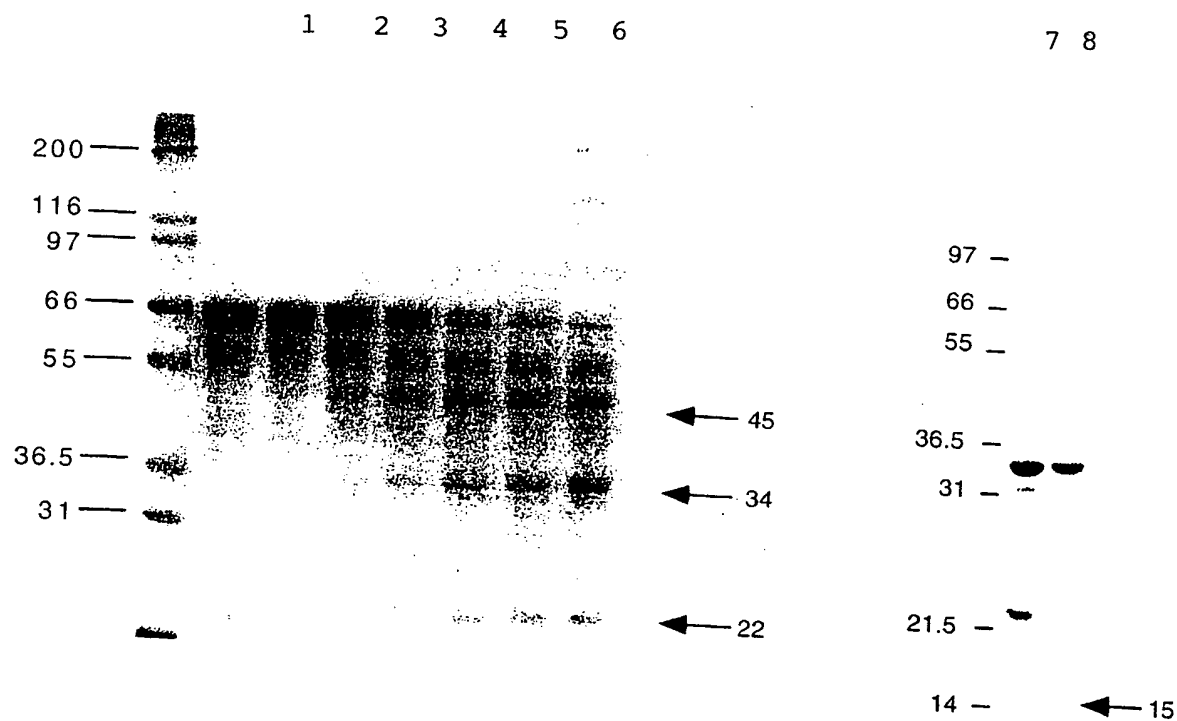


Figure 7

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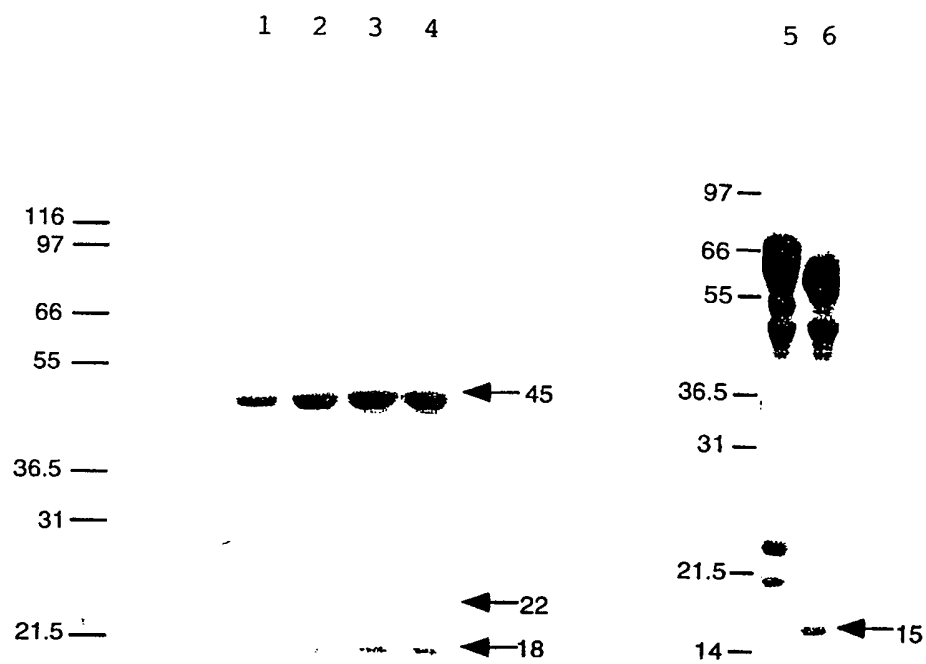


Figure 8

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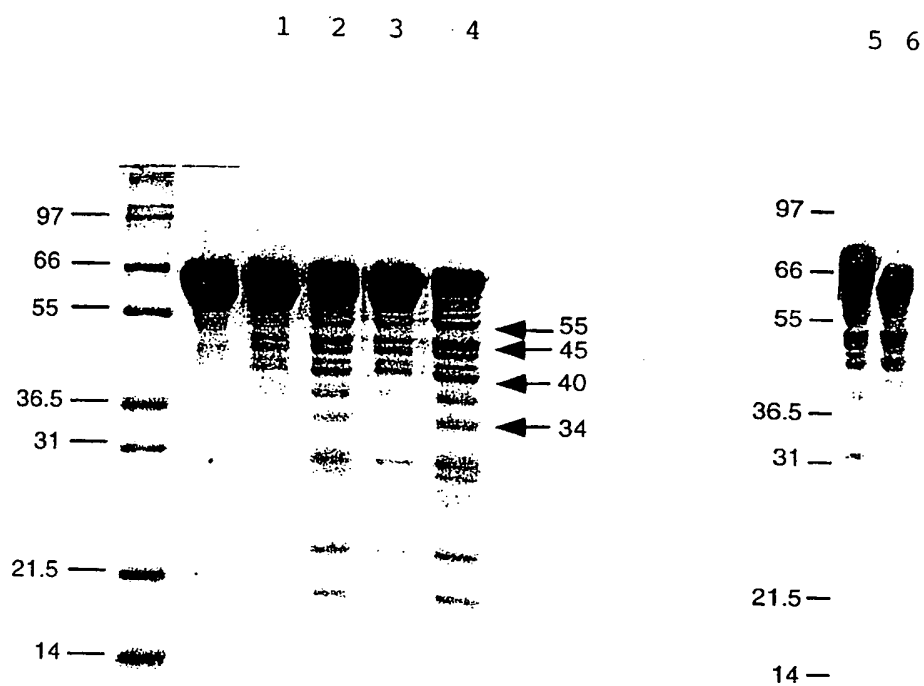


Figure 9

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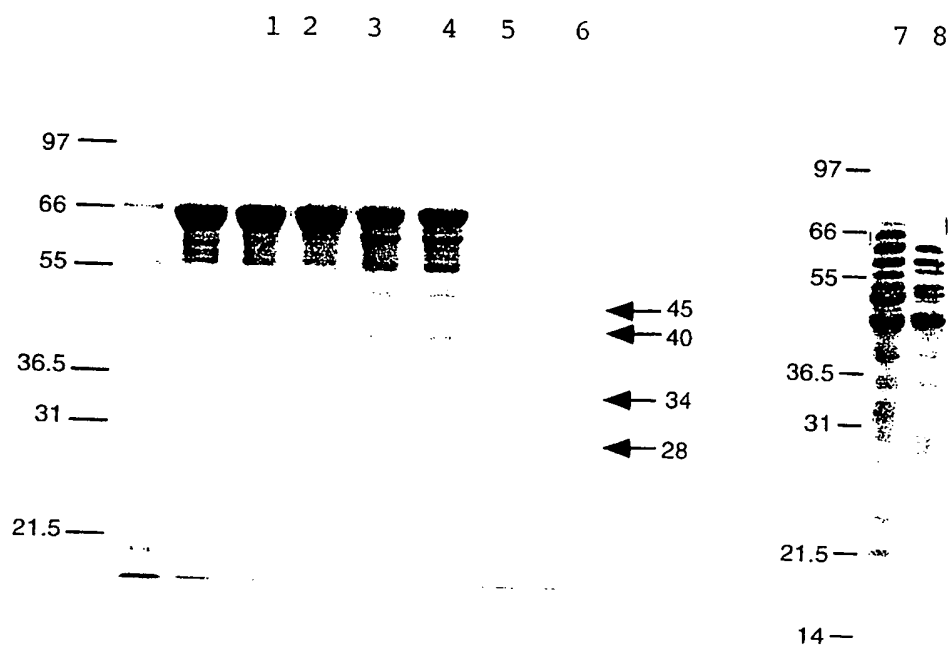


Figure 10

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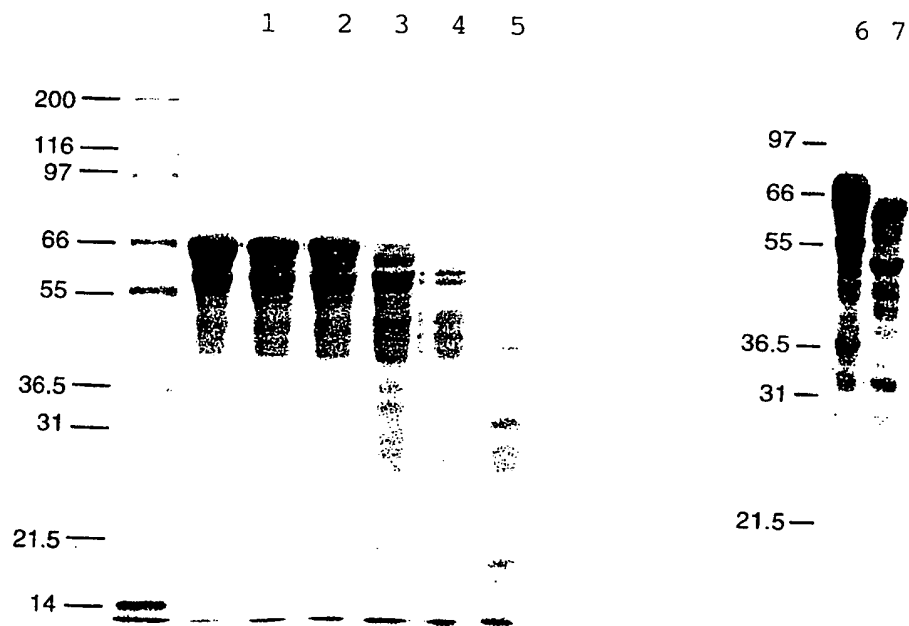


Figure 11

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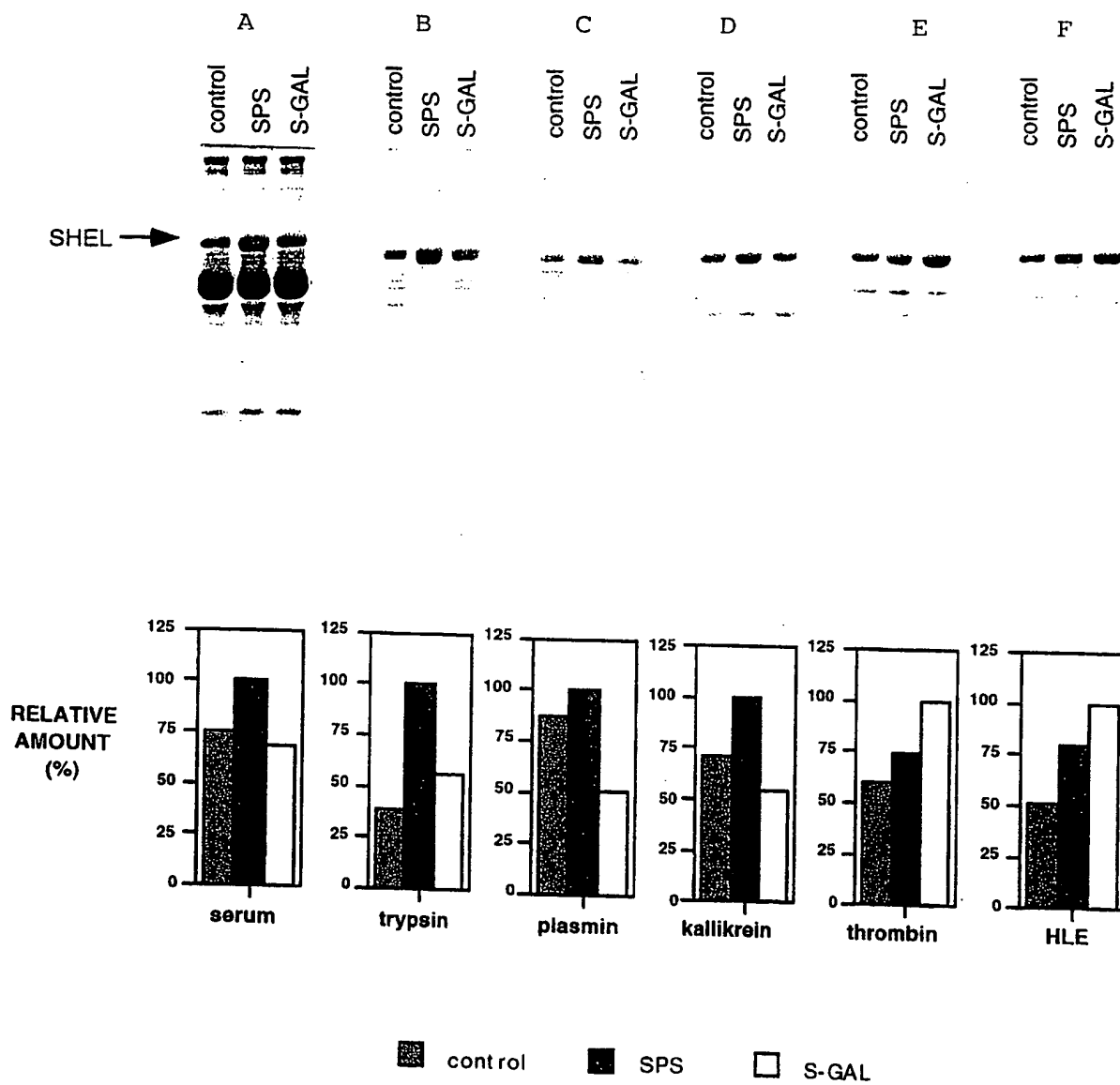


Figure 12

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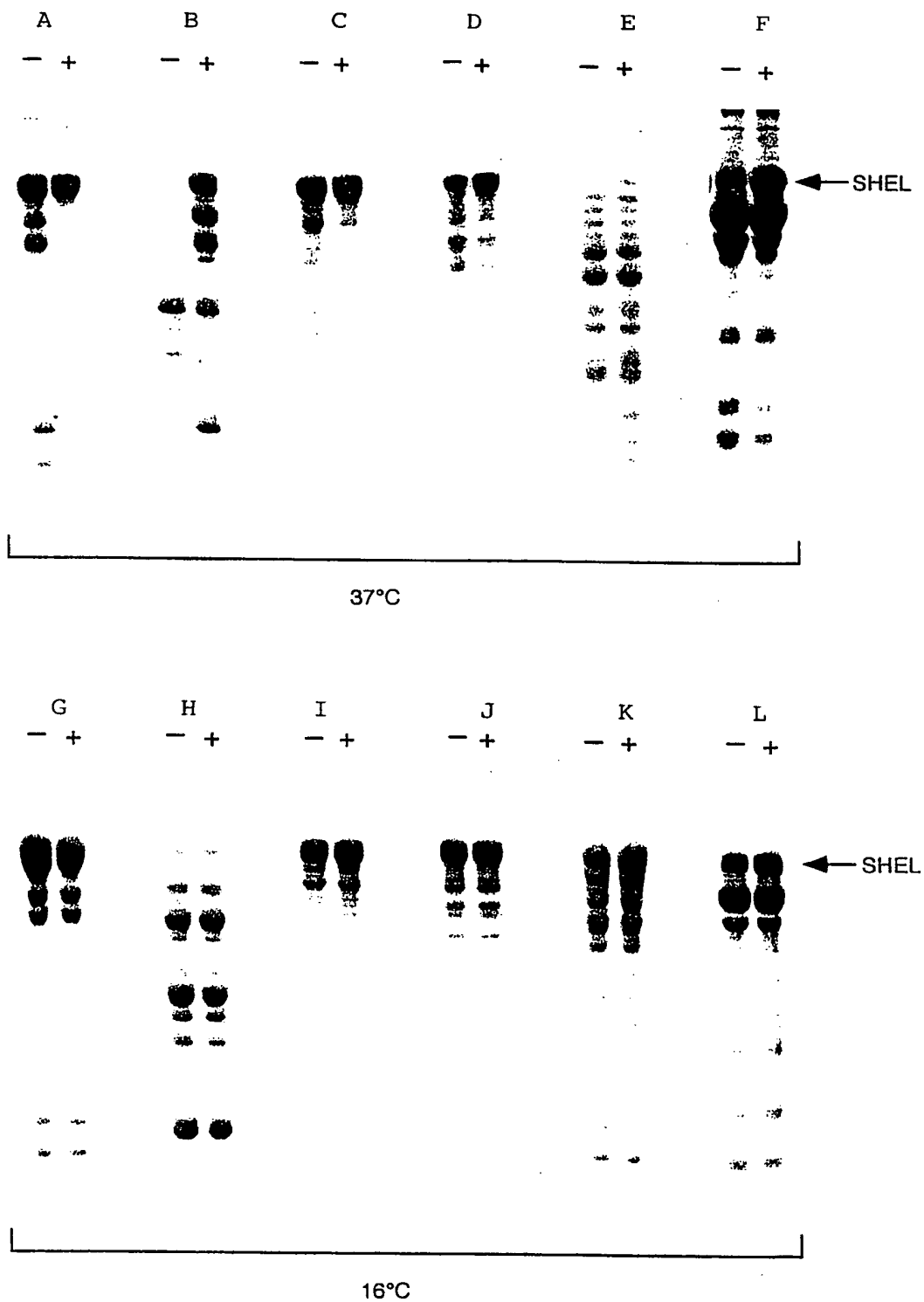


Figure 13

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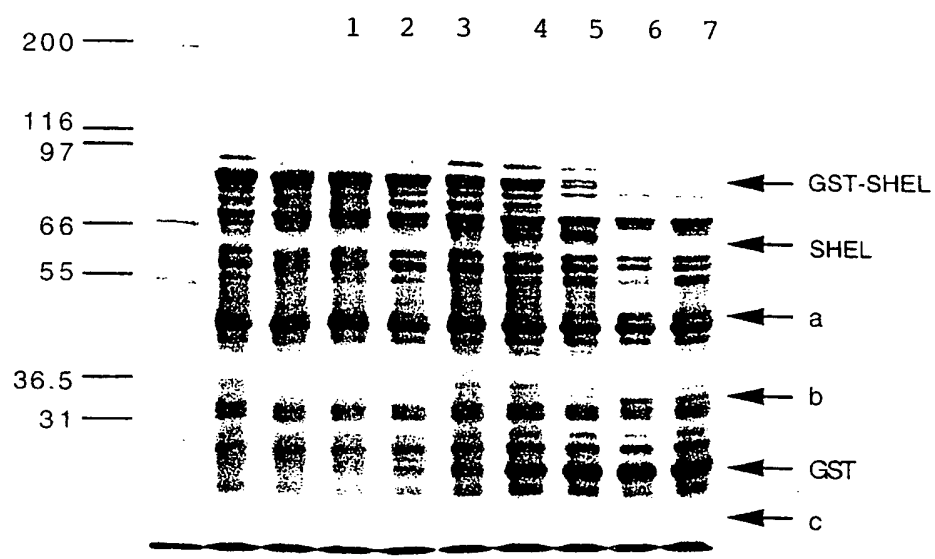


Figure 14

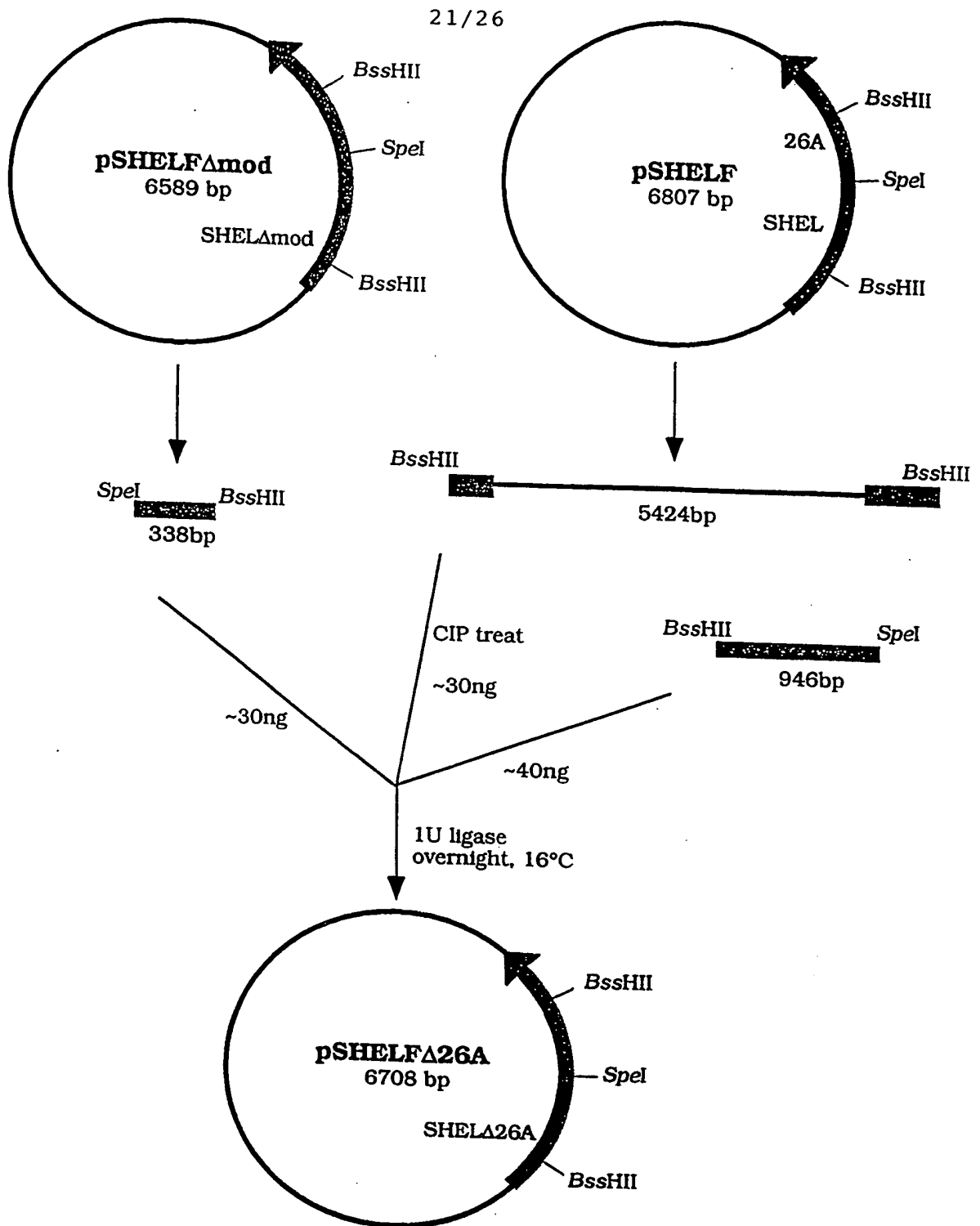


Figure 15

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1 2 3



Figure 16

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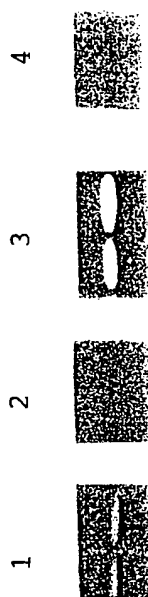


Figure 17

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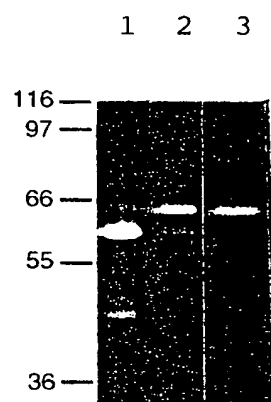


Figure 18

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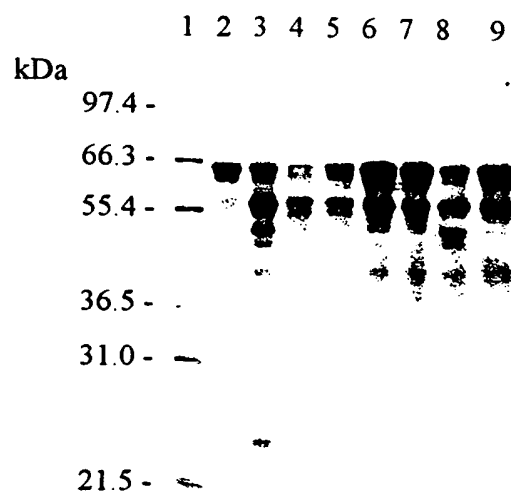


Figure 19

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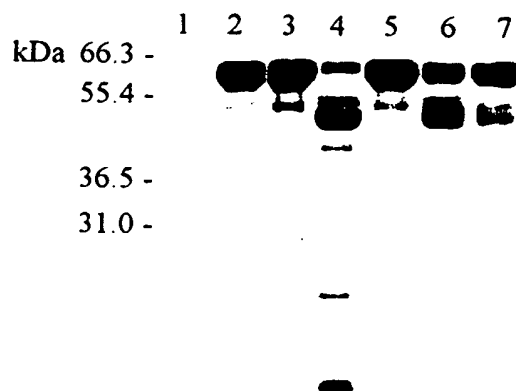


Figure 20